

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§	Attorney Docket No.
YIH-SHIN TAN ET AL.	§	RSW920030276US1
	§	
Serial No.: 10/772,135	§	Examiner: MICHAEL E. KEEFER
	§	
Filed: FEBRUARY 4, 2004	§	Confirmation No.: 4257
	§	
For: METHODS, SYSTEMS, AND	§	Art Unit: 2154
COMPUTER PROGRAM PRODUCTS	§	
FOR CONFIGURING RULES FOR	§	
SERVICE NODES IN GRID SERVICE	§	
ARCHITECTURE SYSTEMS		

RESPONSE TO NOTIFICATION OF NON-COMPLIANT
APPEAL BRIEF UNDER 37 C.F.R. 41.37

Mail Stop Appeal Briefs - Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Included please find corrected sections of the Appeal Brief filed July 13, 2009. As noted in the Notification of Non-Compliant Appeal Brief mailed August 27, 2009, the paragraph under Section IV of the brief, STATUS OF AMENDMENTS, required correction and is therefore resubmitted with this response. Also included is Section III. STATUS OF CLAIMS and Section VIII. CLAIMS APPENDIX, which required correction and are resubmitted with this response. Per the directions in the Notification, only the corrected sections are included with this Response, as there is no need to resubmit the entire Appeal Brief.

No fee is required to file this Response as the fee for filing the original Appeal Brief was paid at submission. However, should any fees be required to file this Response, please charge that fee, as well as any additional required fees, to **IBM Deposit Account No. 09-0461**.

Please replace the sections of the Appeal Brief filed July 13, 2009 as follows:

III. STATUS OF CLAIMS

Claims 1 through 8, 10 through 13, 15 through 20, 22 through 32 and 34 through 37 are pending in this Application and have been four times rejected. Claims 9, 21 and 33 were canceled in the amendment dated November 7, 2008 (the "Last Amendment"). Claim 14 was canceled in the Amendment dated November 13, 2007 (the "First Amendment"). It is from the multiple rejections of claims 1 through 8, 10 through 13, 15 through 20, 22 through 32 and 34 through 37 that this Appeal is taken.

IV. STATUS OF AMENDMENTS

Claims 1 through 13 and 15 through 36 were amended and Claim 37 was added in the Amendment filed November 13, 2007, after a non-final Office Action. The Amendment was entered by the Examiner. Claims 1, 3, 10 through 13, 15, 16, 22 through 25, 27 through 29 and 34 through 37 were amended on April 23, 2008 in response to a final Office Action and the Amendment was not entered by the Examiner. Claims 1, 11, 13, 23, 25, 35 and 37 were amended on November 7, 2008 in response to a non-final Office Action and the Amendment was entered by the Examiner. No amendment was filed or entered in response to the final Office Action dated March 4, 2009.

VIII. CLAIMS APPENDIX

1. A method of configuring nodes for service requests in an Open Grid Services Architecture (OGSA), the method comprising:

transmitting an OGSA operational rule from a first OGSA service node to a second OGSA service node that is configured to apply the OGSA operational rule to a request for service from the first OGSA service node, wherein the OGSA operational rule specifies how the request for service is handled, and wherein the OGSA operational rule comprises a rule associated with at least one of security, error recovery, and business transaction terms/conditions associated with the request for service.

2. The method according to Claim 1 further comprising:

propagating the OGSA operational rule from the second OGSA service node to a third OGSA service node that is registered with the second OGSA service node as capable of providing service thereto.

3. The method according to Claim 1 wherein transmitting an OGSA operational rule is preceded by:

registering the second OGSA service node with the first OGSA service node to define the second OGSA service node as available to the first OGSA service node to receive requests for service.

4. The method according to Claim 1 wherein the OGSA operational rule comprises a first OGSA operational rule, the method further comprising:

modifying the first OGSA operational rule to provide a second OGSA operational rule;
and

transmitting the second OGSA operational rule to the second OGSA service node responsive to modifying the first OGSA operational rule.

5. The method according to Claim 1 further comprising: receiving a first request for service at the first OGSA service node;

determining that the first request is associated with the OGSA operational rule;
applying the OGSA operational rule to the first request to provide a propagated first request; and

transmitting the propagated first request to the second OGSA service node.

6. The method according to Claim 1 further comprising: receiving a first request for service at the first OGSA service node;

determining that the first request is associated with the OGSA operational rule; applying the OGSA operational rule to the first request to provide a propagated first request; and

transmitting the propagated first request to a third OGSA service node rather than the second OGSA service node responsive to a parameter associated with the third OGSA service node.

7. The method according to Claim 1 further comprising:

receiving a first request for service at the first OGSA service node, the first request for service including a token associated with the first request that further defines how the first request is to be serviced;

determining that the first request is associated with the OGSA operational rule; applying the OGSA operational rule to the first request to provide a propagated first request; and

transmitting the propagated first request and the token to the second OGSA service node.

8. The method according to Claim 7 wherein the token comprises at least one of a price, geographic location, and quality of service.

9. (cancelled)

10. The method according to Claim 1 wherein the OGSA operational rule comprises a requestor identifier that identifies the first OGSA service node as transmitting the request for service to the second OGSA service node.

11. A method of configuring secondary Open Grid Services Architecture (OGSA) service nodes to handle service requests from a primary OGSA service node in a OGSA service node network, the method comprising:

- receiving a request for registration at a primary OGSA service node from a secondary OGSA service node including that the secondary OGSA service node is capable of providing a service to the primary OGSA service node;

- registering that the secondary OGSA service node is capable of providing the service to the primary OGSA service node;

- transmitting a response from the primary OGSA service node to the secondary OGSA service node including an OGSA operational rule that defines how the service is to be provided to the primary OGSA service node;

- maintaining the OGSA operational rule accessible to the secondary OGSA service node and associated with the primary OGSA service node;

- receiving a request for service from the primary OGSA service node at the secondary OGSA service node; and

- providing service to the primary OGSA service node in accordance with the OGSA operational rule responsive to determining that the request for service is associated with the primary OGSA service node, wherein the OGSA operational rule comprises a rule associated with at least one of security, error recovery, and business transaction terms/conditions associated with the request for service.

12. The method according to Claim 11 wherein the primary OGSA service node comprises a first primary OGSA service node and the OGSA operational rule comprises a first OGSA operational rule, the method further comprising:

- receiving a request for registration at a second primary OGSA service node from the secondary OGSA service node including that the secondary OGSA service node is capable of providing service to the second primary OGSA service node;

- registering that the secondary OGSA service node is capable of providing the service to the second primary OGSA service node;

transmitting a response from the second primary OGSA service node to the secondary OGSA service node including a second OGSA operational rule that defines how the service is to be provided to the second primary OGSA service node;

maintaining the second OGSA operational rule accessible to the secondary OGSA service node and associated with the second primary OGSA service node;

receiving a request for service from the second primary OGSA service node at the secondary OGSA service node; and

providing service to the second primary OGSA service node using the second OGSA operational rule responsive to determining that the request for service is associated with the second primary OGSA service node.

13. A system for configuring Open Grid Services Architecture (OGSA) nodes for service requests, comprising:

means for transmitting an OGSA operational rule from a first OGSA service node that receives a request for service to a second OGSA service node that is configured to apply the OGSA operational rule to the request for service in response to the request from the first OGSA service node for service; and

means for propagating the OGSA operational rule from the second OGSA service node to a third OGSA service node that is registered with the second OGSA service node as capable of providing service thereto, wherein the OGSA operational rule specifies how the request for service is handled, and wherein the OGSA operational rule comprises a rule associated with at least one of security, error recovery, and business transaction terms/conditions associated with the request for service.

14. (cancelled)

15. The system according to Claim 13 further comprising:

means for registering the second OGSA service node with the first OGSA service node to define the second OGSA service node as available to the first OGSA service node to receive requests for service.

16. The system according to Claim 13 wherein the OGSA operational rule comprises a first OGSA operational rule, the system further comprising:

means for modifying the first OGSA operational rule to provide a second OGSA operational rule; and

means for transmitting the second OGSA operational rule to the second OGSA service node responsive to modifying the first OGSA operational rule.

17. The system according to Claim 13 further comprising:

means for receiving a first request for service at the first OGSA service node;

means for determining that the first request is associated with the OGSA operational rule;

means for applying the OGSA operational rule to the first request to provide a propagated first request; and

means for transmitting the propagated first request to the second OGSA service node.

18. The system according to Claim 13 further comprising:

means for receiving a first request for service at the first OGSA service node;

means for determining that the first request is associated with the OGSA operational rule;

means for applying the OGSA operational rule to the first request to provide a propagated first request; and

means for transmitting the propagated first request to a third OGSA service node rather than the second OGSA service node responsive to a parameter associated with the third OGSA service node.

19. The system according to Claim 13 further comprising:

means for receiving a first request for service at the first OGSA service node, the first request for service including a token associated with the first request that further defines how the first request is to be serviced;

means for determining that the first request is associated with the OGSA operational rule;

means for applying the OGSA operational rule to the first request to provide a propagated first request; and

means for transmitting the propagated first request and the token to the second OGSA service node.

20. The system according to Claim 19 wherein the token comprises at least one of a price, geographic location, and quality of service.

21. (cancelled)

22. The system according to Claim 13 wherein the OGSA operational rule comprises a requestor identifier that identifies the first OGSA service node as transmitting the request for service to the second OGSA service node.

23. A system for configuring secondary Open Grid Services Architecture (OGSA) service nodes to handle service requests from a primary OGSA service node in an OGSA service node network, comprising:

means for receiving a request for registration at a primary OGSA service node from a secondary OGSA service node including that the secondary OGSA service node is capable of providing a service to the primary OGSA service node;

means for registering that the secondary OGSA service node is capable of providing the service to the primary OGSA service node;

means for transmitting a response from the primary OGSA service node to the secondary OGSA service node including an OGSA operational rule that defines how the service is to be provided to the primary OGSA service node;

means for maintaining the OGSA operational rule accessible to the secondary OGSA service node and associated with the primary OGSA service node;

means for receiving a request for service from the primary OGSA service node at the secondary OGSA service node; and

means for providing service to the primary OGSA service node in accordance with the OGSA operational rule responsive to determining that the request for service is associated with the primary OGSA service node, wherein the OGSA operational rule comprises a rule associated

with at least one of security, error recovery, and business transaction terms/conditions associated with the request for service.

24. The system according to Claim 23 wherein the primary OGSA service node comprises a first primary OGSA service node and the OGSA operational rule comprises a first OGSA operational rule, the system further comprising:

- means for receiving a request for registration at a second primary OGSA service node from the secondary OGSA service node including that the secondary OGSA service node is capable of providing service to the second primary OGSA service node;

- means for registering that the secondary OGSA service node is capable of providing the service with second primary OGSA service node;

- means for transmitting a response from the second primary OGSA service node to the secondary OGSA service node including a second OGSA operational rule that defines how the service is to be provided to the second primary OGSA service node;

- means for maintaining the second OGSA operational rule accessible to the secondary OGSA service node and associated with the second primary OGSA service node;

- means for receiving a request for service from the second primary OGSA service node at the secondary OGSA service node; and

- means for providing service to the second primary OGSA service node using the second OGSA operational rule responsive to determining that the request for service is associated with the second primary OGSA service node.

25. A computer program product for configuring Open Grid Services Architecture (OGSA) nodes for service requests comprising:

- a computer readable medium having computer readable program code embodied therein, the computer readable program product comprising:

- computer readable program code configured to transmit an OGSA operational rule from a first OGSA service node that receives a request for service to a second OGSA service node that is configured to apply the OGSA operational rule to the request for service in response to the request from the first OGSA service node for service, wherein the OGSA operational rule comprises a rule associated with at least one of security, error

recovery, and business transaction terms/conditions associated with the request for service.

26. The computer program product according to Claim 25 further comprising:
computer readable program code configured to propagate the OGSA operational rule from the second OGSA service node to a third OGSA service node that is registered with the second OGSA service node as capable of providing service thereto.
27. The computer program product according to Claim 25 further comprising:
computer readable program code configured to register the second OGSA service node with the first OGSA service node to define the second OGSA service node as available to the first OGSA service node to receive requests for service.
28. The computer program product according to Claim 25 wherein the OGSA operational rule comprises a first OGSA operational rule, the computer program product further comprising:
computer readable program code configured to modify the first OGSA operational rule to provide a second OGSA operational rule; and
computer readable program code configured to transmit the second OGSA operational rule to the second OGSA service node responsive to modifying the first OGSA operational rule.
29. The computer program product according to Claim 25 further comprising:
computer readable program code configured to receive a first request for service at the first OGSA service node;
computer readable program code configured to determine that the first request is associated with the OGSA operational rule;
computer readable program code configured to apply the OGSA operational rule to the first request to provide a propagated first request; and
computer readable program code configured to transmit the propagated first request to the second OGSA service node.
30. The computer program product according to Claim 25 further comprising:

computer readable program code configured to receive a first request for service at the first OGSA service node;

computer readable program code configured to determine that the first request is associated with the OGSA operational rule;

computer readable program code configured to apply the OGSA operational rule to the first request to provide a propagated first request; and

computer readable program code configured to transmit the propagated first request to a third OGSA service node rather than the second OGSA service node responsive to a parameter associated with the third OGSA service node.

31. The computer program product according to Claim 25 further comprising:

computer readable program code configured to receive a first request for service at the first OGSA service node, the first request for service including a token associated with the first request that further defines how the first request is to be serviced;

computer readable program code configured to determine that the first request is associated with the OGSA operational rule;

computer readable program code configured to apply the OGSA operational rule to the first request to provide a propagated first request; and

computer readable program code configured to transmit the propagated first request and the token to the second OGSA service node.

32. The computer program product according to Claim 31 wherein the token comprises at least one of a place, geographic location, and quality of service.

33. (cancelled)

34. The computer program product according to Claim 25 wherein the OGSA operational rule comprises a requestor identifier that identifies the first OGSA service node as transmitting the request for service to the second OGSA service node.

35. A computer program product of configuring Open Grid Services Architecture (OGSA) secondary OGSA service nodes to handle service requests from a primary OGSA service node in a OGSA service node network, comprising:

a computer readable medium having computer readable program code embodied therein, the computer readable program product comprising:

computer readable program code configured to receive a request for registration at a primary OGSA service node from a secondary OGSA service node including that the secondary OGSA service node is capable of providing a service to the primary OGSA service node;

computer readable program code configured to register that the secondary OGSA service node is capable of providing the service with primary OGSA service node;

computer readable program code configured to transmit a response from the primary OGSA service node to the secondary OGSA service node including an OGSA operational rule that defines how the service is to be provided to the primary OGSA service node;

computer readable program code configured to maintain the OGSA operational rule accessible to the secondary OGSA service node and associated with the primary OGSA service node;

computer readable program code configured to receive a request for service from the primary OGSA service node at the secondary OGSA service node; and

computer readable program code configured to provide service to the primary OGSA service node in accordance with the OGSA operational rule responsive to determining that the request for service is associated with the primary OGSA service node, wherein the OGSA operational rule comprises a rule associated with at least one of security, error recovery, and business transaction terms/conditions associated with the request for service.

36. The computer program product according to Claim 35 wherein the primary OGSA service node comprises a first primary OGSA service node and the OGSA operational rule comprises a first OGSA operational rule, the computer program product further comprising:

computer readable program code configured to receive a request for registration at a second primary OGSA service node from the secondary OGSA service node including that the secondary OGSA service node is capable of providing service to the second primary OGSA service node;

computer readable program code configured to register that the secondary OGSA service node is capable of providing the service with second primary OGSA service node;

computer readable program code configured to transmit a response from the second primary OGSA service node to the secondary OGSA service node including a second OGSA operational rule that defines how the service is to be provided to the second primary OGSA service node;

computer readable program code configured to maintain the second OGSA operational rule accessible to the secondary OGSA service node and associated with the second primary OGSA service node;

computer readable program code configured to receive a request for service from the second primary OGSA service node at the secondary OGSA service node; and

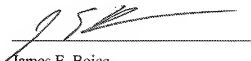
computer readable program code configured to provide service to the second primary OGSA service node using the second OGSA operational rule responsive to determining that the request for service is associated with the second primary OGSA service node.

37. A method of configuring Open Grid Services Architecture (OGSA) nodes for service requests in a hierarchical OGSA network, the method comprising:

transmitting an OGSA operational rule from a high level hierarchical OGSA service node to a lower level hierarchical OGSA service node that is configured to receive requests for service from a plurality of other OGSA service nodes, wherein the OGSA operational rule specifies how a request for service from the high level hierarchical OGSA service node is handled, and wherein the OGSA operational rule comprises a rule associated with at least one of security, error recovery, and business transaction terms/conditions associated with the request for service.

No extension of time is believed to be necessary to further the prosecution of this application. However, if any extension of time is required, that extension of time is hereby requested. Please charge the fee for any extension of time as well as any additional required fees to **IBM Deposit Account No. 09-0461**.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read 'J E Boice', is written over a horizontal line.

James E. Boice
Reg. No. 44,545
LAW OFFICE OF JIM BOICE
3839 Bee Cave Road
Suite 201
West Lake Hills, Texas 78746
512.306.1200 (v)
512.306.1757 (f)

ATTORNEY FOR APPELLANTS